INDEX TO VOLUME I OF GROWTH 1937

Age distribution of tooth eruption, 385
Arbacia, 234
Ascidians, 211
Asmundson, V. S., Glutathione and hereditary size, 89

Berrill, N. J., Cell Number and organization, 211
Book reviews, 245
Brill, E. R., Temperature and cleavage rate, 234
Brody, S., Physiologic time and weight, 60
Burr, H. S., Electro-Dynamic life theory, 78

Calcium deficiency syndrome, 175
Cell respiration, 263
Chaetopterus, 234
Chapman, S. S., 299
Chatalbash, N., 247
Cleavage rate and temperature, 234
Collings, W. D., 285
Colloidal micellae, orientation of, 251
Corpus luteum, inhibiting effect of, 119
Courtis, S. A., Growth cycle, 155
Cultures, tomato roots, 182; pineapple plants, 204; yeast, 217; chick and fowl tissues, 228
Cytosine, 189

Davenport, C. B., 279, head measurements, 3
Dental caries, 385
d-Lysine, 111
Dibenzanthracene, 375, effect on skin growth, 247
Diffusion and permeability, 313
Diffusion fields, 251
Disulfoxide, effect on skin growth, 247
Doljanski, L., Tissue growth rate in chick and fowl, 228

Electro-dynamic theory of life, 78

Fowl, 89, 228

Glutathione, and hereditary size, 89
Goldschmidt, J., Tissue growth rate in chick and fowl, 228
Goss, H., Glutathione and hereditary size, 89
Gregory, P. W., Glutathione and hereditary size, 89
GROWTH, introduction, 1
  motion of, 6
  developmental, 68
  and l-Aspartic acid, 68
  sigmoid, 140
  cycle, 155
  and d-Lysine, 111

Hammett, F. S., Introduction to GROWTH, 1; l-Aspartic acid, 68; d-Lysine, 111; Thymine, 135; Cytosine, 189; l-proline, 285; l-hydroxyproline, 291
Head measurement, 3
Hereditary size, and glutathione, 89
Hoadley, L., Temperature and cleavage rate, 234
Hoffman, R. S., Tissue growth rate in chick and fowl, 228

Infantile growth curves, 279
Intestinal length, and body weight, 201
Introduction to GROWTH, 1

Kavanagh, A. J., Population growth and seeding, 217
Kidney, weight of left and right, 309
Klein, H., 385
Koenig, K. F., Corpus luteum and oestrin, 119
Kramer, M., 385
Krauss, B. H., Growth of Pineapple in water culture, 204

l-Aspartic acid, 68
l-proline, 285
l-hydroxyproline, 291
Landahl, H. D., 263
Lavine, M., Cytosine, 189
Lavine, T., Cytosine, 189
Lavine, T. F., Thymine, 135
Lewis, M. R., tumor transplantability, 375
Lichtenstein, E. G., 375
Liopeltis vernalis (Harlan), 103
Loeb, L., Corpus luteum and oestrin, 119
Loewe, S. and I. W., Intestinal length and body weight, 201
Lumer, H., Sigmoid Growth, 140

Man, 3
Martin, G. J., Calcium deficiency syndrome, 175
Mathematical biophysics, 251, 263, 313
Membrane permeability, 313
Methionine, a review, 337
Moore, E., Corpus luteum and oestrin, 119
Motion of Growth, 6
Mouse, 194, 201, 247, 375
Myers, R. J., population center 329
MacDougal, D. T., 371
MacKay, L. L. and E. M., kidney weight 309

Northrop, F. S. C., Electrodynamic life theory, 78
Nucleic acid components, 135, 189
Nutrient solutions for plants, 182, 204

Obelia geniculata, 68, 111, 135, 189, 285, 291, 299
Oestrin, 119
Orange tree, 371
Organization and cell number, 211
Owen, S. E., Sulphydril and radon necrosis, 130

Palmer, C. E., 385
Periodicity in growth, 371

Physiologic time, 60
Physiologic weight, 60
Plymouth Rocks, hereditary size, 89
Pomerat, R. piration snake egg and young, 103

Radon, necrosis, 130
Reed, H. S., growth orange tree 371
Reed, S. C., Mouse pigment determination, 194
Relief population, centre of, 329
Reimann, S. P., 247
Reiner, J. M., 251, 313
Respiration of snake egg and young, 103
Richards, O. W., Population growth and seeding, 217

Sander, G., Mouse pigment determination, 194
Schlumberger, H., l-Aspartic acid, 68
Seeding size, 217
Sideris, C. P., Growth of pineapple in water culture, 204
Smadel, J. E., Corpus luteum and oestrin, 119
Smith, M., 329
Snake, egg and young respiration, 103
Sulphydril, 130; effect on skin growth, 247
Syndrome, 175

Teeth, 385
Theory of life, 78
Thymine, 135
Tissue cultures, chick and fowl, 228
Toennies, G., 337
Tomato root, 182
Transplantability of mouse tumours, 375
Tumour transplantability, 375

Weight of kidney, 309
Wetzel, N. C., Motion of Growth, 6
White leghorns, hereditary size, 89
White, P. R., Cultivation excised tomato roots, 182

Yeast, 217
Young, G., 251

Zarrow, M. X., Respiration snake egg and young 103

TABLE OF CONTENTS

(Volume I, 1937)

No. 1, April, 1937.

PAPER		PAGE
	INTRODUCTION TO GROWTH, F. S. Hammett	1
1	Davenport, C. B. An Improved Technique for Measuring Head Features	3
2	Wetzel, N. C. On the Motion of Growth. XVII. Theoretical Foundations	6
3	Brody, S. Relativity of Physiologic Time and Physiologic Weight	60
4	Hammett, F. S. and Hans Schlumberger. The Role of l-Aspartic Acid in Developmental Growth	68
5	Northrop, F. S. C. and H. S. Burr. Experimental Findings concerning the Electro-Dynamic Theory of Life and an Analysis of their Physical Meaning	78
6	Gregory, P. W., Harold Goss and V. S. Asmundson, Glutathione Concentration and Hereditary Size. VI. Comparative Post-hatching Studies with Barred Plymouth Rocks and White Leghorns	89

No. 2, May, 1937.

PAPER		PAGE
7	Zarrow, M. X. and C. M. Pomerat. Respiration of the Egg and Young of the Smooth Green Snake, Liopeltis vernalis (Harlan)	103
8	Hammett, F. S. d-Lysine and Growth	111
9	Moore, Elizabeth, J. E. Smadel, K. F. Keonig, and Leo Loeb. The Inhibiting Effect of Corpus Luteum on the Growth Stimulating Action of Oestrin	119
10	Owen, S. E. Sulphydryl and Radon Induced Necrosis	130
11	Hammett, F. S. and T. F. Lavine. Developmental Growth and Nucleic Acid Components IV. Thymine	135
12	Lumer, H. The Consequences of Sigmoid Growth for Relative Growth Functions	140
13	Courtis, S. A. What Is a Growth Cycle?	155

No. 3, September, 1937.

PAPER		PAGE
14	Martin, G. J. A Calcium Deficiency Syndrome Produced in Growing Animals	175
15	White, P. R. A Comparison of Nutrient Salt Solutions for the Cultivation of Excised Tomato Roots	182
16	Hammett, F. S., Theo. Lavine and M. Lavine. Developmental Growth and Nucleic Acid Components. V. Cytosine	189
17	Reed, S. C. and G. Sander. Time of Determination of Hair Pigments in the Mouse	194
18	Loewe, S. and I. W. Loewe. Intestinal Length and Body Weight in the Adult Albino Mouse	201
19	Sideris, C. P. and B. H. Krauss. The Growth of Pineapple Plants in Complete Water Cultures with Either Ammonia or Nitrate Salts	204
20	Berrill, N. J. Cell Number and Organization	211
21	Richards, O. W. and A. J. Kavanagh. The Course of Population Growth and the Size of Seeding	217
22	Hoffman, R. S., J. Goldschmidt, and L. Doljanski. Comparative Studies on the Growth Capacity of Tissues from Embryonic and Adult Chickens	228
23	Hoadley, L. and E. R Brill. Temperature and the Cleavage Rate of Arbacia and Chaetopterus	234
	Book Reviews	245

No. 4, December, 1937.

PAPER		PAGE
24	Reimann, S. P. and N. Chatalbash. The Relative Thickness of Mouse Skins Treated with Sulfhydryl, Disulfoxide, and Dibenzanthracene	247
25	Young, G. and J. M. Reiner. Mechanical Forces and Torque on an Ellipsoid in Diffusion Fields in Connection with the Problem of Orientation of Colloidal Micellae in Biological Systems	251
26	Landahl, H. D. Mathematical Biophysics of Cell Respiration	263
27	Davenport, C. B. Interpretation of Certain Infantile Growth Curves	279
28	Hammett, F. S. and W. D. Collings. Developmental Growth and l-Proline	285
29	Hammett, F. S. l-Hydroxyproline in Developmental Growth	291
30	Chapman, S. S. Localization of –SH and –S. S– in *Obelia Geniculata*	299
31	Mackay, L. L. and E. M. Mackay. The Difference in the Weight of the Left and Right Kidneys	309
32	Reiner, J. M. Diffusion and Biological Membrane Permeability	313
33	Smith, M. and R. J. Myers. An Estimate of the Center of the Relief Population of the United States	329
34	Toennies, G. The Sulfur Containing Amino Acid Methionine. A Review of the Present State of Knowledge	337
35	Reed, H. S. and D. T. MacDougal, Periodicity in the Growth of the Orange Tree	371
36	Lewis, M. R. and E. G. Lichtenstein. Studies on the Transplantability of Induced and Spontaneous Tumors Occurring in Mice of Pure Inbred Strains	375
37	Klein, H., C E. Palmer, and M. Kramer. Studies on Dental Caries. II. The Use of the Normal Probability Curve for Expressing the Age Distribution of Eruption of the Permanent Teeth	385
	Index	395